AMENDMENTS TO THE CLAIMS

A complete listing of all pending claims is presented.

1. (Previously Presented) A data transmission system having a transmitting apparatus that transmits a scene description which describes the structures of one or more signals to be used to construct a scene, and a receiving apparatus that constructs the scene according to the scene description, wherein:

said transmitting apparatus has a scene description processing means that transfers a scene description which conforms to the state of a transmission line and/or a request issued from said receiving apparatus and appends time information to data including said scene description;

said receiving apparatus monitors said data, including said time information, sent said transmitting apparatus and detects a delay in transmission in terms of said time information.

2. (Original) A data transmission system according to Claim 1, further comprising a memory means in which a plurality of predefined scene descriptions is stored, wherein:

said scene description processing means selects a scene description from among the plurality of scene descriptions stored in said memory means, and transfers the selected scene description.

3. (Original) A data transmission system according to Claim 1, further comprising a memory means in which a plurality of predefined scene descriptions is stored, wherein:

said scene description processing means converts a predefined scene description read from said memory means into another scene description, and transfers the resultant scene description.

4. (Original) A data transmission system according to Claim 1, wherein said scene description processing means encodes a scene description and transfers the resultant scene description.

5. (Original) A data transmission system according to Claim 1, wherein:

said transmitting apparatus includes a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from said receiving apparatus, as one or more signals to be used to construct a scene; and

said scene description processing means transfers a scene description that conforms to a transmission rate for a signal transferred from said signal processing means and/or quality.

6. (Original) A data transmission system according to Claim 1, wherein:

said transmitting apparatus includes a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from said receiving apparatus, as one or more signals to be used to construct a scene; and

said scene description processing means transfers a scene description that includes information necessary for said receiving apparatus to decode the signals transferred from said signal processing means.

7. (Original) A data transmission system according to Claim 1, wherein:

said transmitting apparatus includes a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from said receiving apparatus, as one or more signals to be used to construct a scene; and

said scene description processing means transfers a scene description that specifies whether the signals to be used to construct a scene are used or not.

8. (Original) A data transmission system according to Claim 1, wherein said scene description processing means transfers a scene description whose complexity conforms to the state of a transmission line and/or a request issued from said receiving apparatus.

9. (Original) A data transmission system according to Claim 8, wherein said scene description processing means transfers a scene description, with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene, in conformity with the state of a transmission line and/or a request issued from said receiving apparatus.

10. (Original) A data transmission system according to Claim 8, wherein said scene description processing means transfers a scene description, with which a part scene within a scene is removed or a new part scene is added to the scene, in conformity with the state of a transmission line and/or a request issued from said receiving apparatus.

11. (Original) A data transmission system according to Claim 8, wherein said scene description processing means modifies a quantization step, at which a scene description is encoded, in conformity with the state of a transmission line and/or a request issued from said receiving apparatus.

12. (Original) A data transmission system according to Claim 1, wherein said scene description processing means divides a scene description into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from said receiving apparatus, and then transfers the resultant scene description.

13. (Original) A data transmission system according to Claim 12, wherein said scene description processing means adjusts a time interval between time instants at which said receiving apparatus decodes each of the plurality of decoding units into which a scene description is divided.

14. (Previously Presented) A data transmitting method for transmitting a scene description that describes the structures of one or more signals to be used to construct a scene, and constructing the scene according to the scene description, wherein:

a scene description that conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted;

time information is appended to transmitted data including said scene description; and

said time information is monitored to detect delays in transmission in terms of said time information.

15. (Original) A data transmitting method according to Claim 14, wherein:

a plurality of predefined scene descriptions is stored; and

a scene description is selected from among the plurality of stored scene descriptions, and then transmitted.

16. (Original) A data transmission system according to Claim 14, wherein:

predefined scene descriptions are stored; and

any of the predefined scene descriptions that are stored is read, converted into another scene description, and then transmitted.

17. (Original) A data transmission system according to Claim 14, wherein a scene description is encoded and transmitted.

18. (Original) A data transmission system according to Claim 14, wherein:

one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that conforms to a transmission rate at which the signals are transmitted in compliance with the state of a transmission line and/or a request issued from a receiving side, and/or quality is transmitted.

19. (Original) A data transmitting method according to Claim 14, wherein:

one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that includes information necessary for a receiving side to restore the signals transmitted in conformity with the state of the transmission line and/or the request issued from the receiving side is transmitted.

20. (Original) A data transmission system according to Claim 14, wherein:

one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that specifies whether the signals to be used to construct a scene are used or not is transmitted.

21. (Original) A data transmission system according to Claim 14, wherein a scene description whose complexity conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted.

22. (Original) A data transmission system according to Claim 21, wherein a scene description with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene is transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side.

23. (Original) A data transmitting method according to Claim 21, wherein, a scene description with which a part scene within a scene is removed or a new part scene is added to the scene is transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side.

24. (Original) A data transmitting method according to Claim 21, wherein a quantization step at which a scene description is encoded is modified in conformity with the state of a transmission line and/or a request issued from a receiving side.

25. (Original) A data transmitting method according to Claim 14, wherein a scene description is divided into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from a receiving side, and then transmitted.

26. (Original) A data transmitting method according to Claim 25, wherein a time interval between time instants at which a receiving side decodes each of the plurality of decoding units into which a scene description is divided is adjusted.

27. (Previously Presented) A data transmitting apparatus for transmitting a scene description that describes the structures of one or more signals to be used to construct a scene, comprising:

a scene description processing means for transferring a scene description that

conforms to the state of a transmission line and/or a request issued from a receiving side and

append time infrmation to data including said scene descriptions.

28. (Original) A data transmitting apparatus according to Claim 27, further

comprising:

a memory means in which a plurality of predefined scene descriptions is stored,

wherein:

said scene description processing means selects a scene description from among the

plurality of scene descriptions stored in said memory means, and transmits the selected scene

description.

29. (Original) A data transmitting apparatus according to Claim 27, further

comprising:

a memory means in which predefined scene descriptions are stored, wherein:

said scene description processing means converts a predefined scene description read

from said memory means into another scene description, and transfers the resultant scene

description.

30. (Original) A data transmitting apparatus according to Claim 27, wherein said

scene description processing means encodes a scene description and transmits the resultant

scene description.

31. (Original) A data transmitting apparatus according to Claim 27, further

comprising a signal processing means that transfers one or more signals, which conform to

the state of a transmission line and/or a request issued from a receiving side, as one or more

signals to be used to construct a scene, wherein:

said scene description processing means transfers a scene description that conforms to

a transmission rate for the signals transferred from said signal processing means and/or

quality.

32. (Original) A data transmitting apparatus according to Claim 27, further

comprising a signal processing means that transfers one or more signals, which conform to

the state of a transmission line and/or a request issued from a receiving side, as one or more

signals to be used to construct a scene, wherein:

said scene description processing means transfers a scene description that includes

information necessary for a receiving side to decode the signals transferred from said signal

processing means.

33. (Original) A data transmitting apparatus according to Claim 27, further comprising a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from a receiving side, as one or more signals to be used to construct a scene, wherein:

said scene description processing means transfers a scene description that specifies whether the signals to be used to construct a scene are used or not.

34. (Original) A data transmitting apparatus according to Claim 27, wherein said scene description processing means transfers a scene description whose complexity conforms to the state of a transmission line and/or a request issued from a receiving side.

35. (Original) A data transmitting apparatus according to Claim 34, wherein said scene description processing means transfers a scene description, with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene, in conformity with the state of a transmission line and/or a request issued from a receiving side.

36. (Original) A data transmitting apparatus according to Claim 34, wherein said scene description processing means transfers a scene description, with which a part scene within a scene is removed or a new part scene is added to the scene, in conformity with the state of a transmission line and/or a request issued from a receiving side.

37. (Original) A data transmitting apparatus according to Claim 34, wherein said scene description processing means modifies a quantization step, at which a scene description is encoded, in conformity with the state of a transmission line and/or a request issued from a receiving side.

38. (Original) A data transmitting apparatus according to Claim 27, wherein said scene description processing means divides a scene description into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from a receiving side.

39. (Original) A data transmitting apparatus according to Claim 38, wherein said scene description processing means adjusts a time interval between time instants at which a receiving side decodes each of the plurality of decoding units into which a scene description is divided.

40. (Previously Presented) A data transmitting method for transmitting a scene description that describes the structures of one or more signals to be used to construct a scene, wherein:

a scene description that conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted;

time informatioin is appended to transmitted data including said scene description.

41. (Original) A data transmitting method according to Claim 40, wherein a plurality of predefined scene descriptions is stored, and a scene description selected from among the plurality of scene descriptions that are stored is transmitted.

42. (Original) A data transmitting method according to Claim 40, wherein predefined scene descriptions are stored, and a predefined scene description that is stored is read, converted into another scene description, and then transmitted.

43. (Original) A data transmitting method according to Claim 40, wherein a scene description is encoded and transmitted.

44. (Original) A data transmitting method according to Claim 40, wherein: one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that conforms to a transmission rate at which the signals are transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side, and/or quality is transmitted.

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45. (Original) A data transmitting method according to Claim 40, wherein: one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that includes information necessary for a receiving side to decode the signals transmitted in conformity with the state of a transmission line and/or a request issued from the receiving side.

46. (Original) A data transmitting method according to Claim 40, wherein: one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that specifies whether the signals to be used to construct a scene are used or not is transmitted.

47. (Original) A data transmitting method according to Claim 40, wherein a scene description whose complexity conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted.

48. (Original) A data transmitting method according to Claim 47, wherein a scene description, with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene, is transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side.

49. (Original) A data transmitting method according to Claim 47, wherein a scene description, with which a part scene within a scene is removed or a new part scene is added to the scene, is transferred in conformity with the state of a transmission line and/or a request issued from a receiving side.

50. (Original) A data transmitting method according to Claim 47, wherein a quantization step at which a scene description is encoded is modified in conformity with the state of a transmission line and/or a request issued from a receiving side.

51. (Original) A data transmitting method according to Claim 40, wherein a scene description is divided into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from a receiving side.

52. (Original) A data transmitting method according to Claim 51, wherein a time interval between time instants at which a receiving side decodes each of the plurality of decoding units into which a scene description is divided is adjusted.

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